A Hybrid Classification System to Find Financial News that is relevant

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Abstract. We understand Thomson Reuters Financial News as a mirror of time, in particular, as a mirror of the Sovereign Debt Crisis (SDC). We believe that the evolvement of the SDC can be comprehended more deeper (and better) in the presence of financial news that is relevant. The aim of this research work, therefore, is the design and implementation of a classification system, which is able to separate relevant news from noise and which allows a monitoring of flows of relevant financial news over time. To be more concrete, a news is being said as to be relevant, if it adequately consists of a sufficient number of thematic themes (topics) – a coherent set of financial terms, either given by financial experts or resulted by explorative a discovery process (hybridism). Each topic is described by a relevance weight, which is adaptive, and a topic lifetime value, which refers to a stable, fluctuating, and/or ‘come-and-go’ relevance. Testing the classification system on financial events like the European Summits, we expect a flow of relevances of different topics and weightiness, allowing a perspective analysis and a predictive relevance barometer.

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